

FIG. 1

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# Reader Network / Site

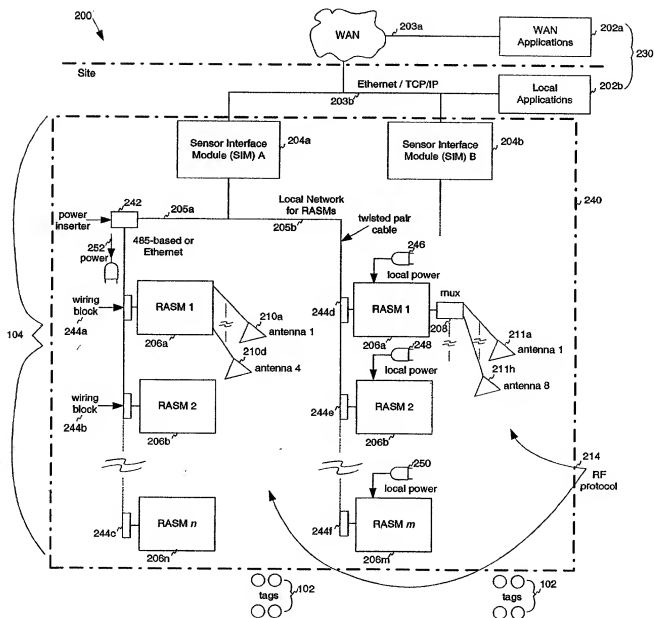


FIG. 2

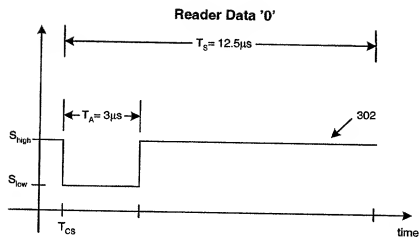


FIG. 3

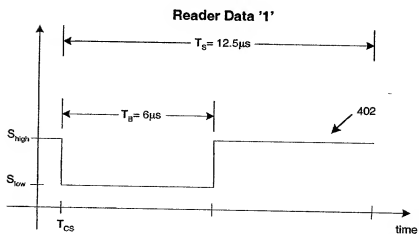


FIG. 4

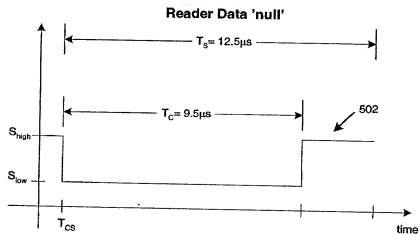


FIG. 5

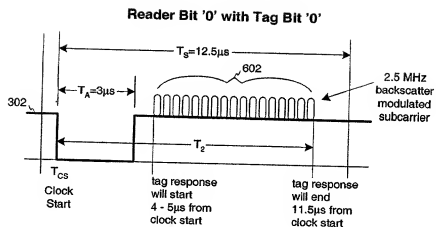


FIG. 6

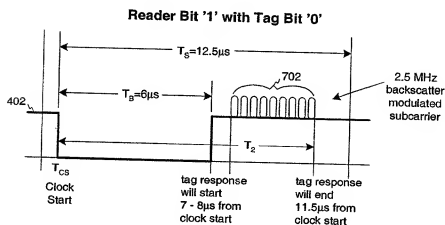


FIG. 7

Reader Bit '0' with Tag Bit '1'

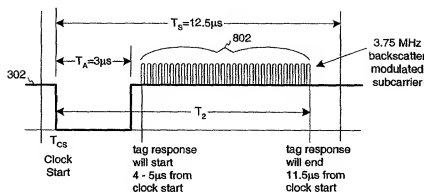


FIG. 8

Reader Bit '1' with Tag Bit '1'

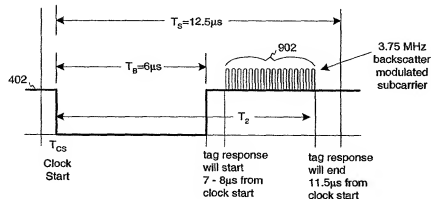


FIG. 9

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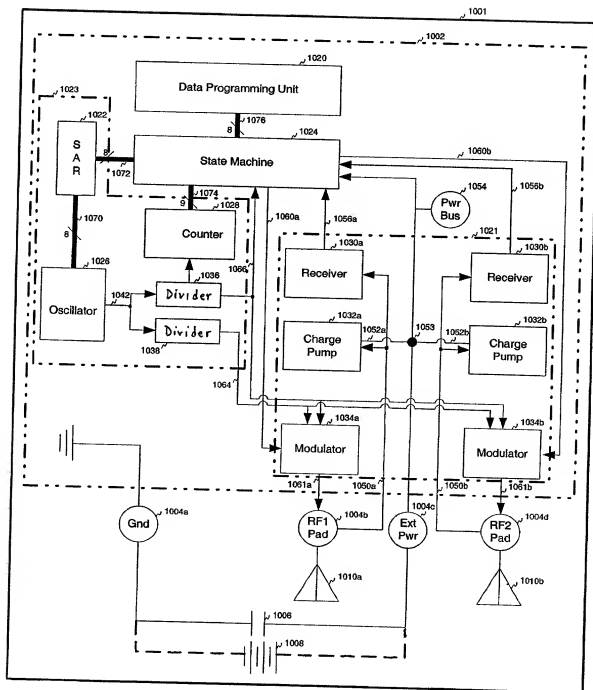


FIG. 10

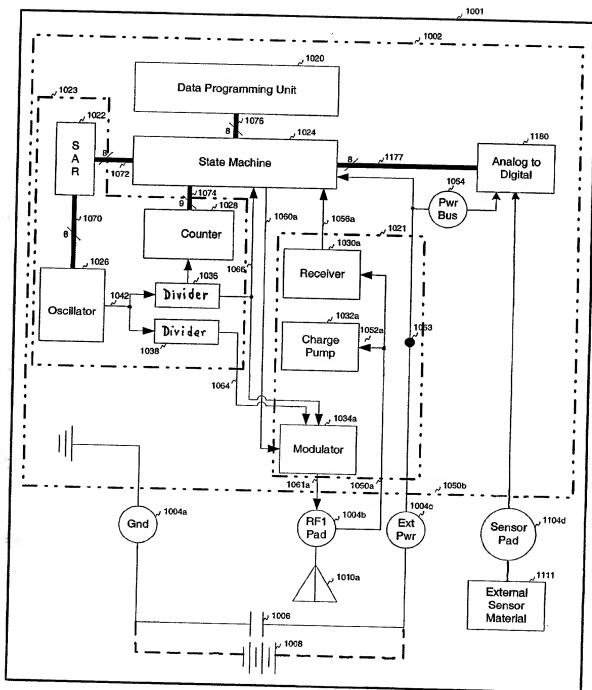


FIG. 11

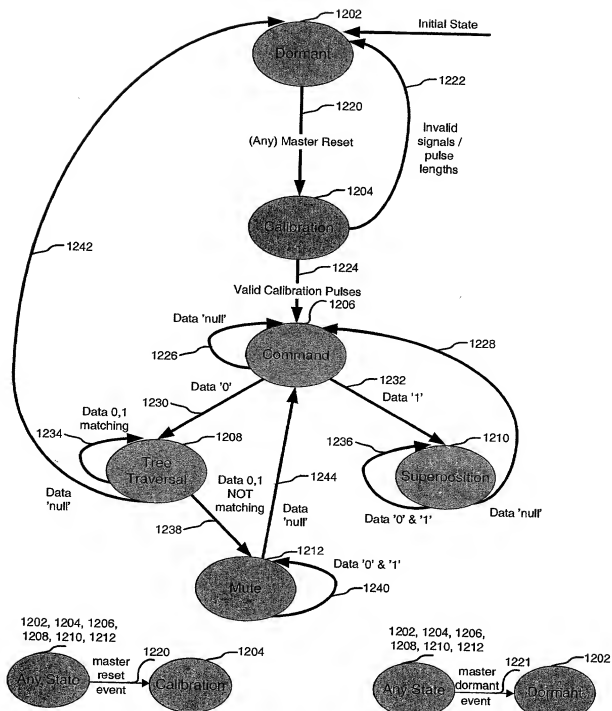


FIG. 12A



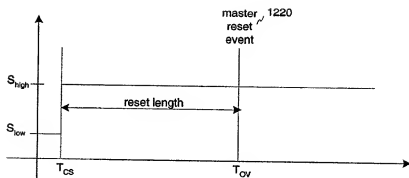


FIG. 12B

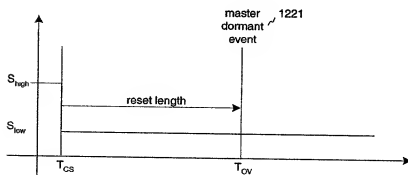


FIG. 12C

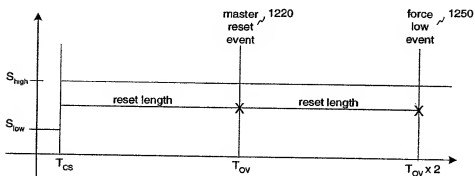


FIG. 12D

Binary Traversal Flowchart from a Tag Perspective

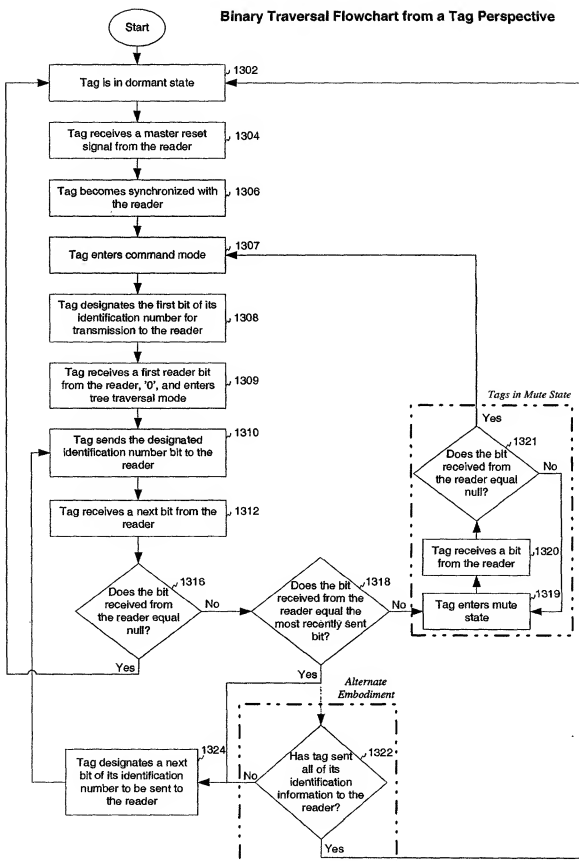


FIG.13

# Read Specific Tag, Reader Perspective

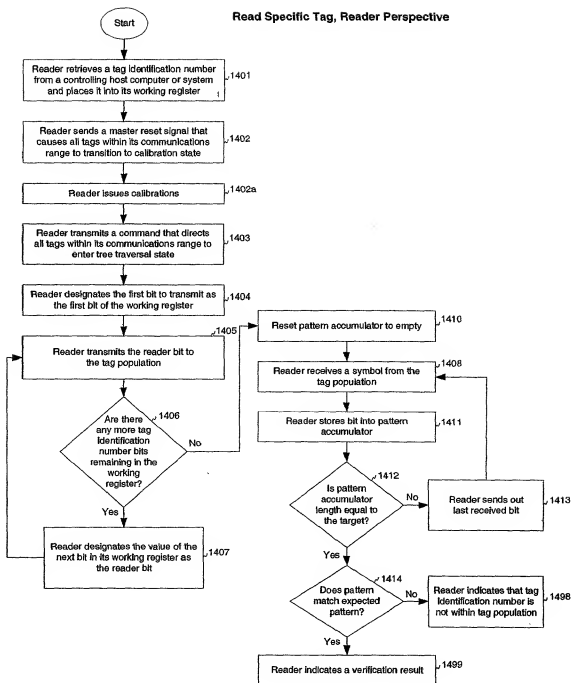
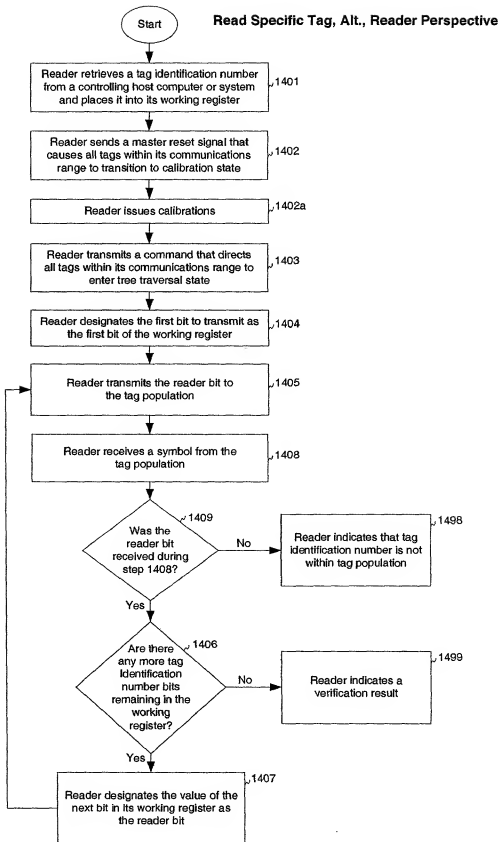
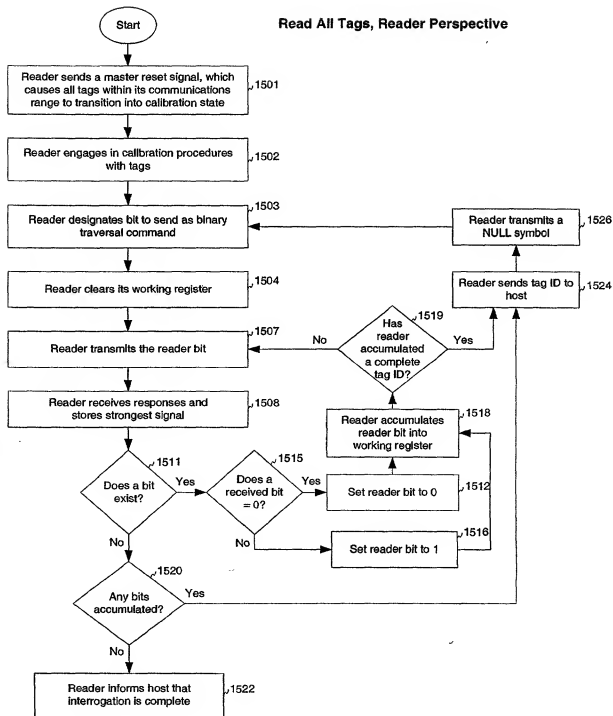


FIG. 14A

**FIG. 14B**

**FIG. 15A :**

# Read All Tags, Alt., Reader Perspective

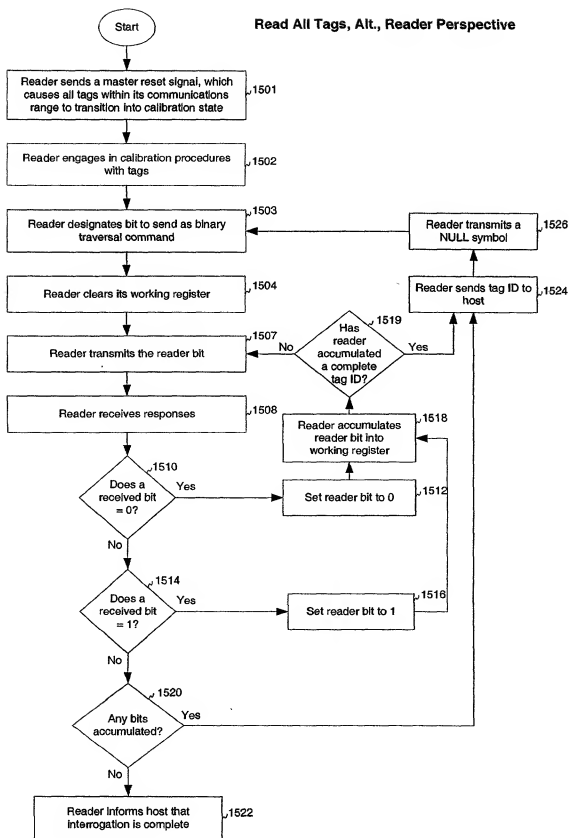


FIG. 15B

Binary Traversal Paths and Tree for a 3-bit Tag Population

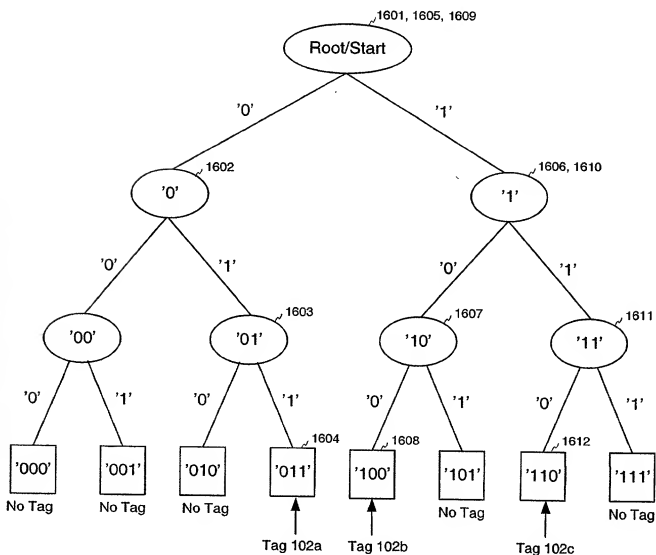


FIG. 16

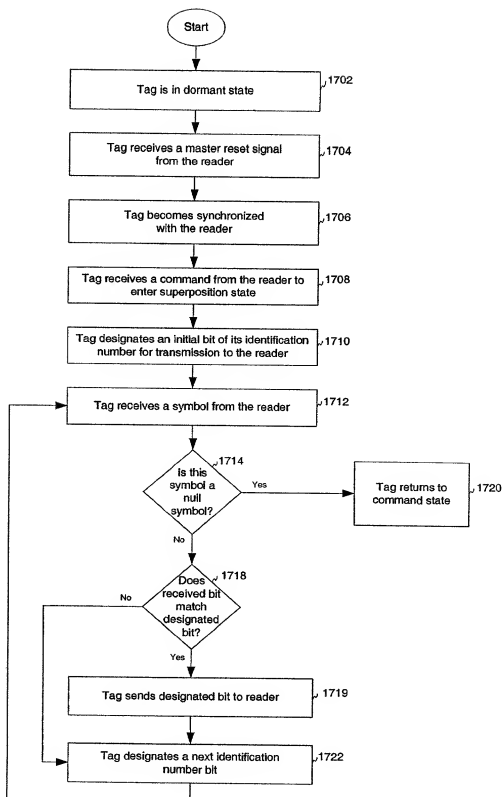


FIG. 17A



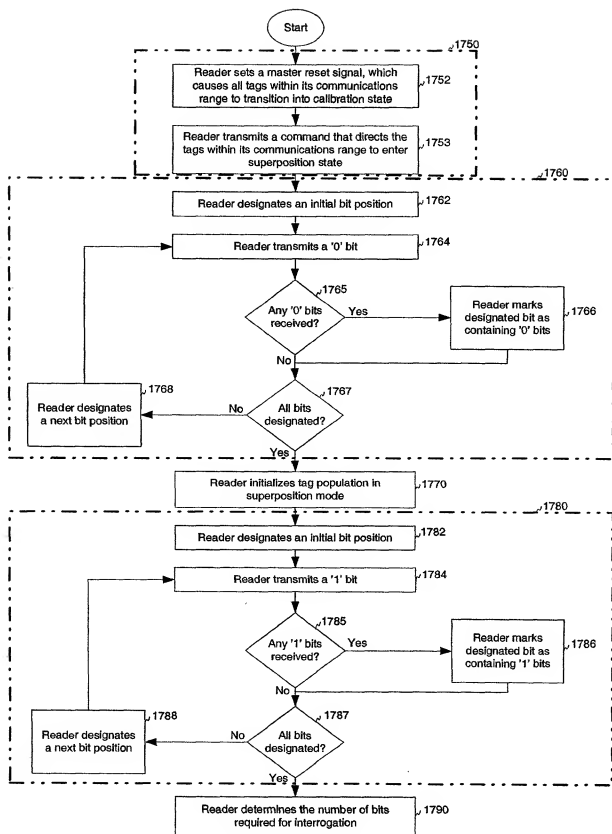


FIG. 17B

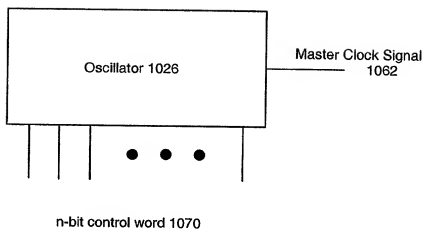


FIG. 18

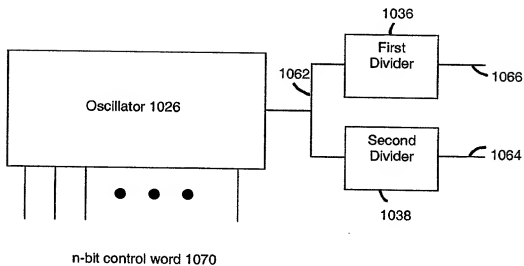


FIG. 19

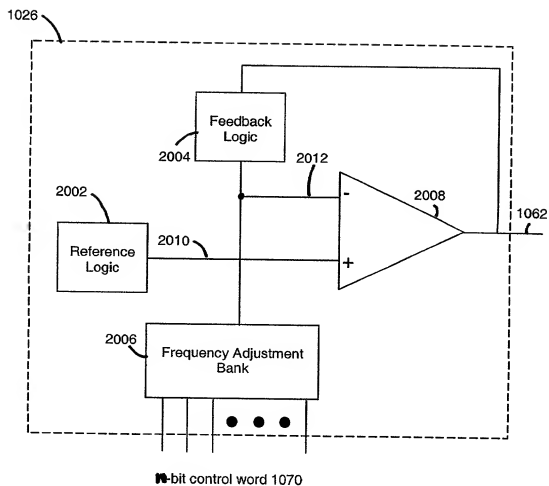


FIG. 20

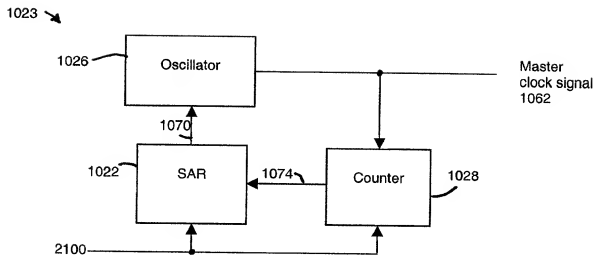


FIG. 21A

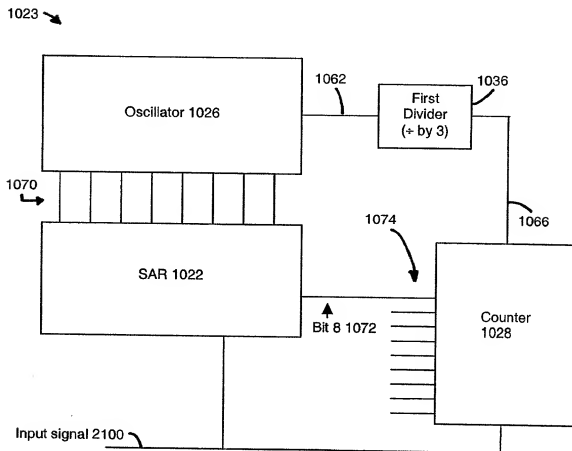


FIG. 21B

# Conceptual implementation of SAR calibration

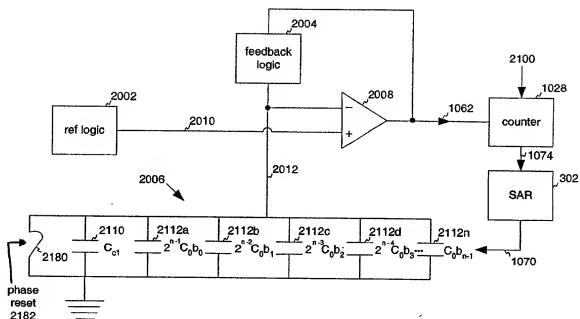


FIG. 21C

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# Physical implementation of adjustable capacitor bank

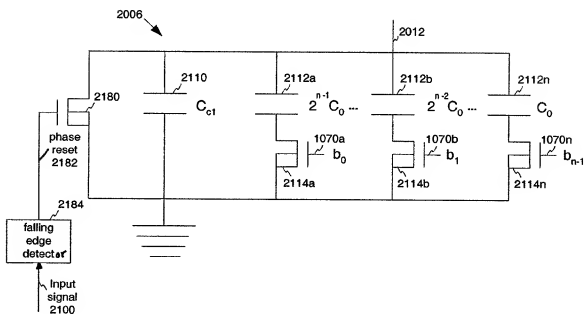
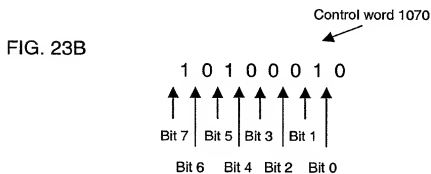
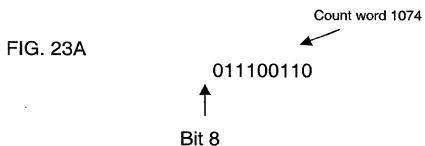
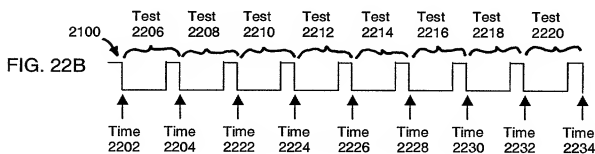
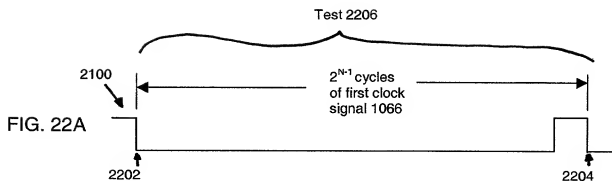


FIG. 21D



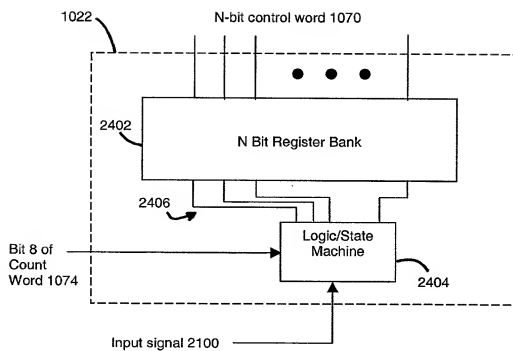
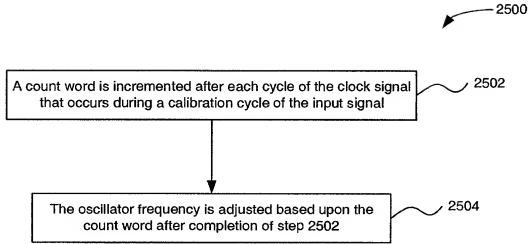
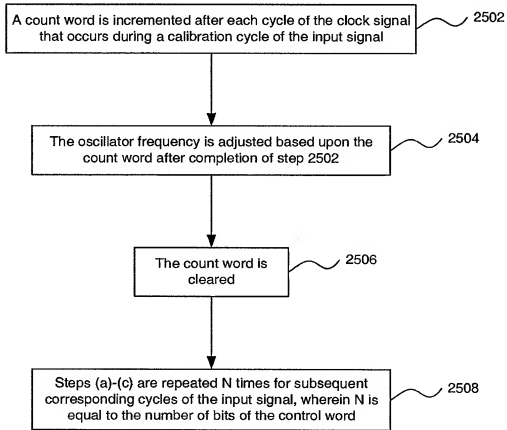


FIG. 24

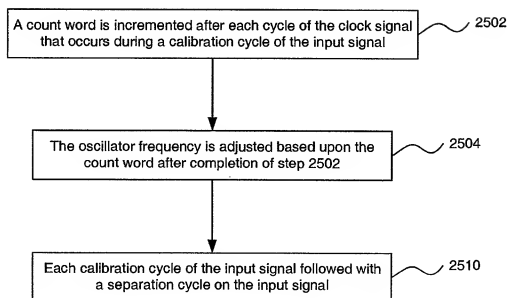




**FIG. 25A**



**FIG. 25B**

**FIG. 25C**

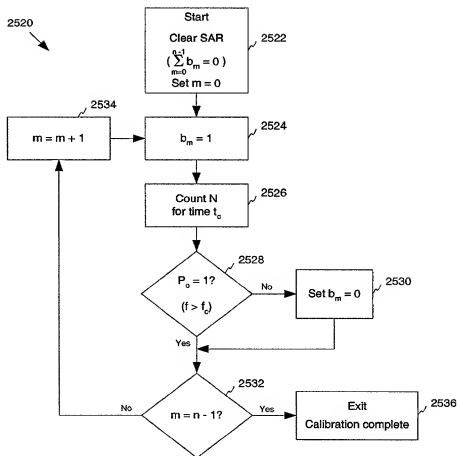


FIG. 25D

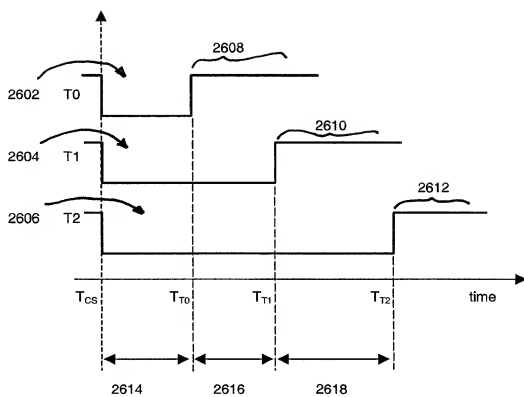


FIG. 26A

Data Symbol Timing Chart

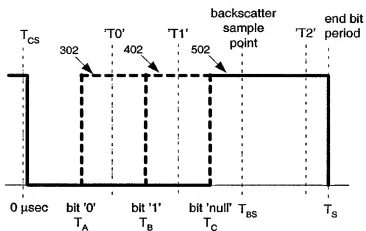


FIG. 26B

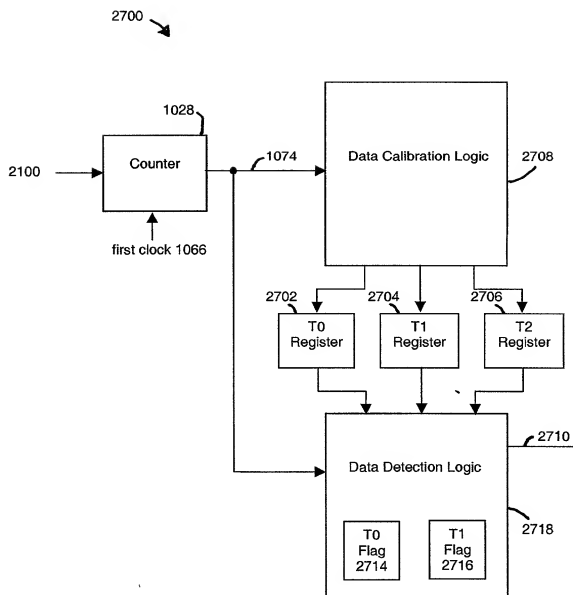
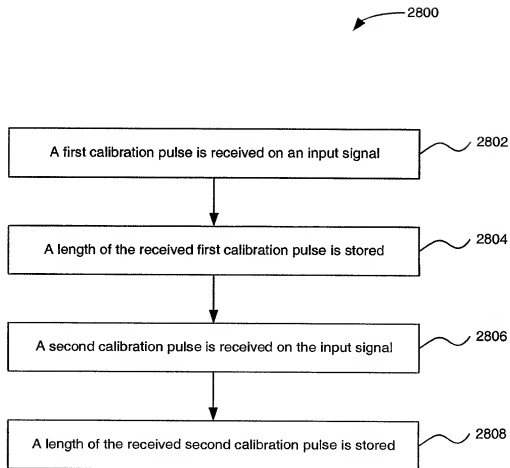


FIG. 27

**FIG. 28A**

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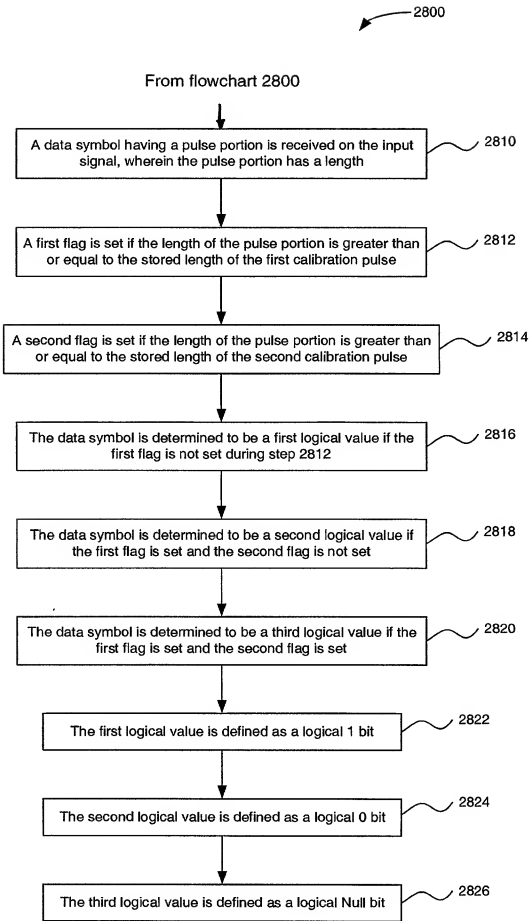
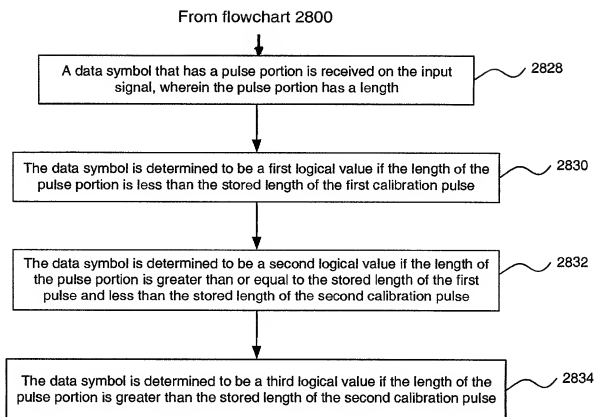
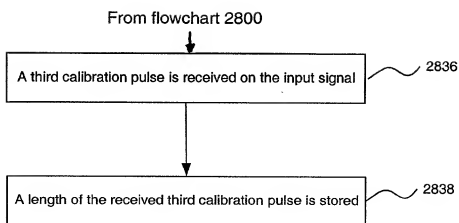


FIG. 28B



**FIG. 28C**



**FIG. 28D**

2800

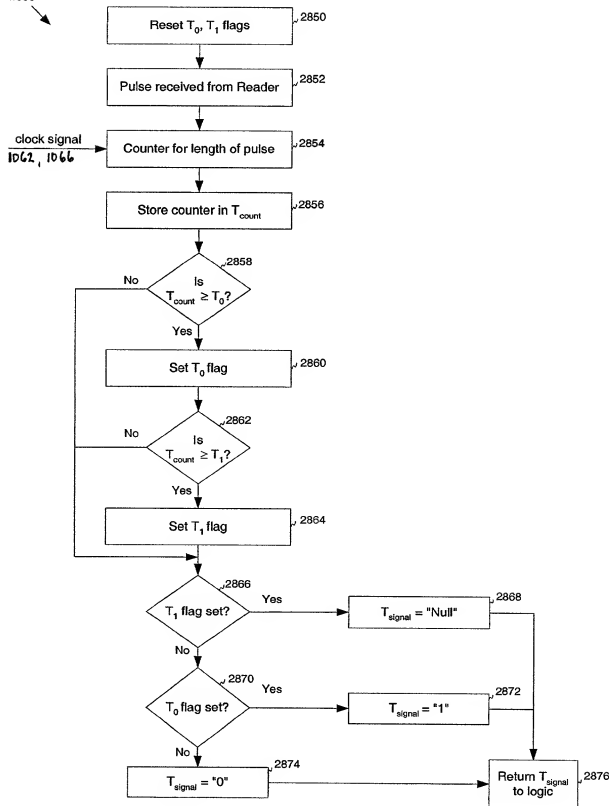


FIG. 28E

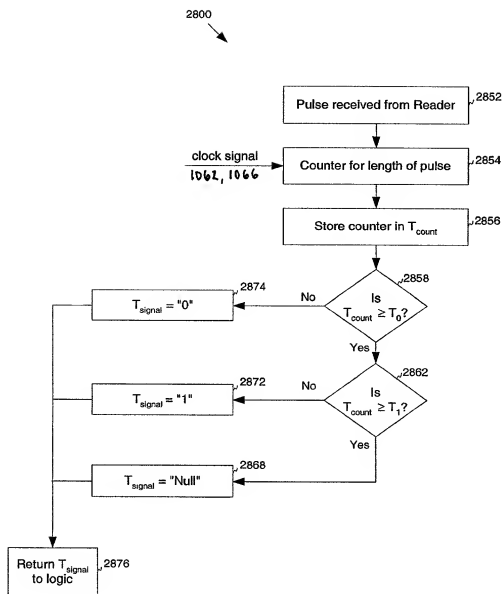
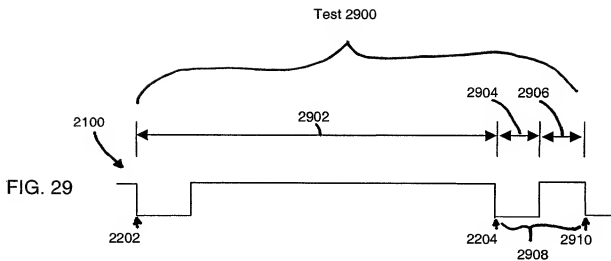
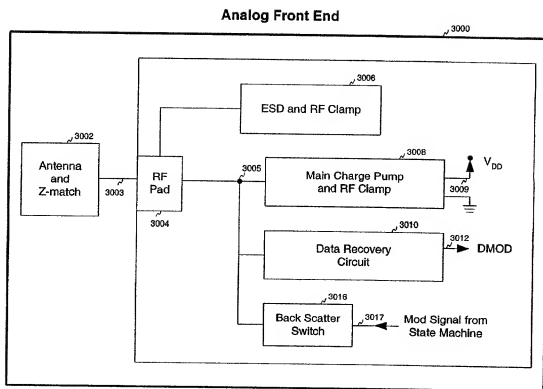


FIG. 28F



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**FIG. 30**

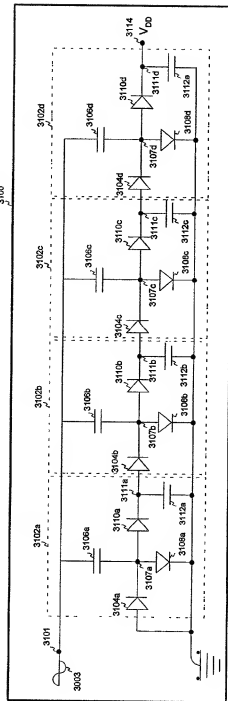


FIG. 31

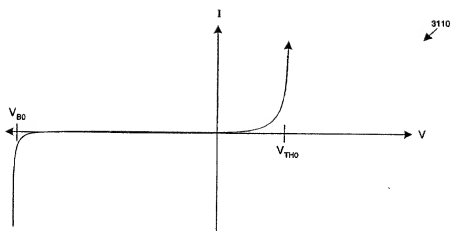


FIG. 32A

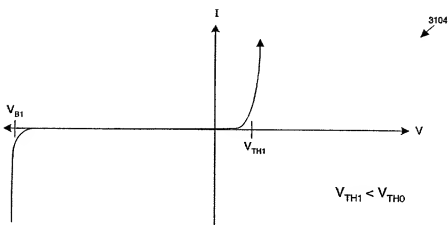


FIG. 32B

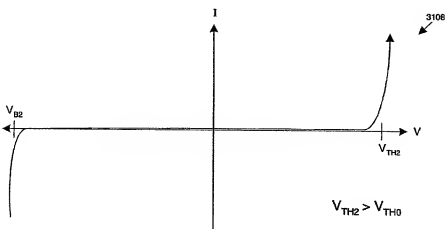
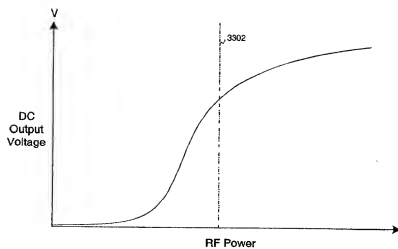
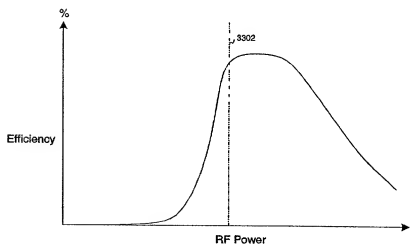


FIG. 32C





**FIG. 33A**



**FIG 33B**

3400

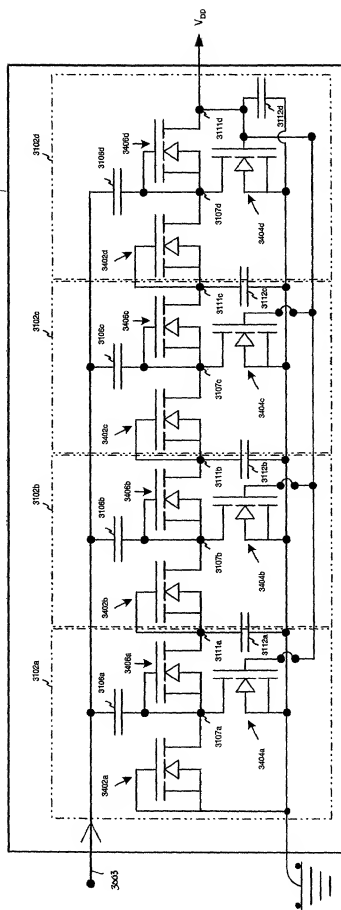


FIG. 34A

3400

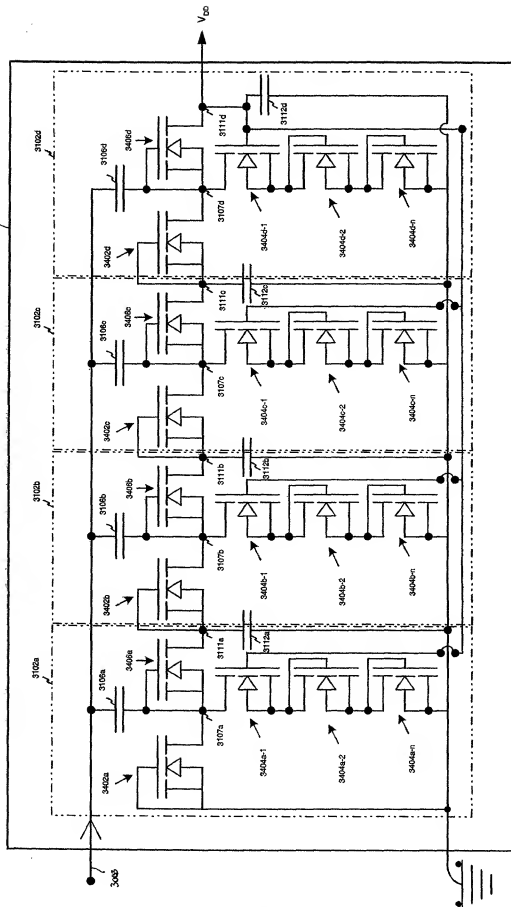


FIG. 34B

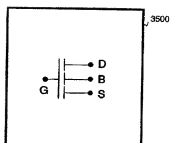


FIG. 35A

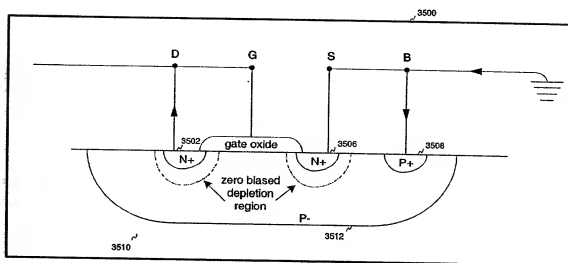


FIG. 35B

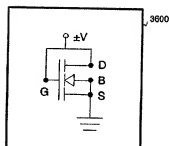


FIG. 36A

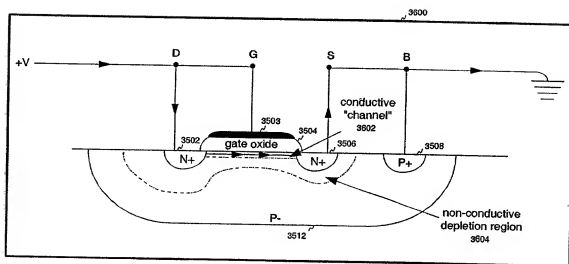


FIG. 36B

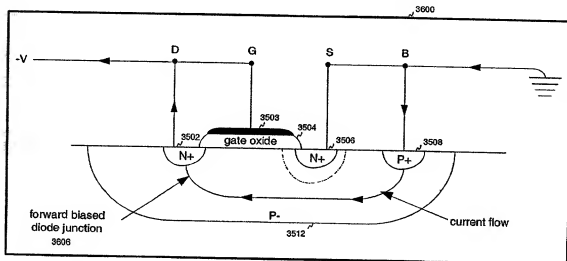


FIG. 36C

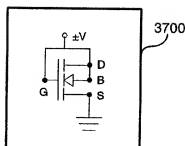


FIG. 37A

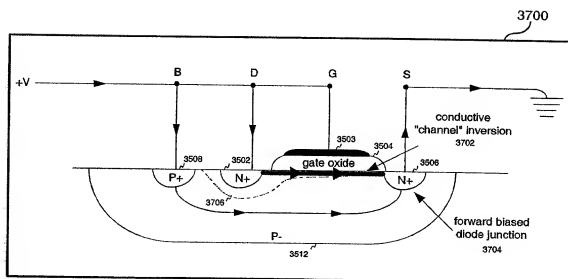


FIG. 37B

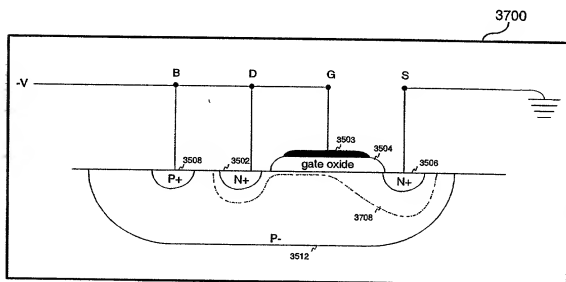
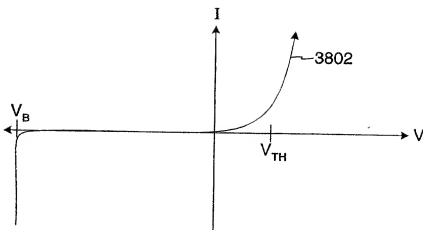
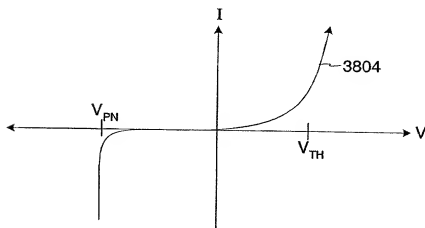
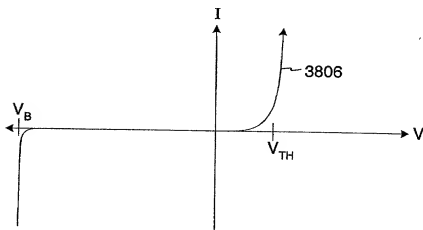
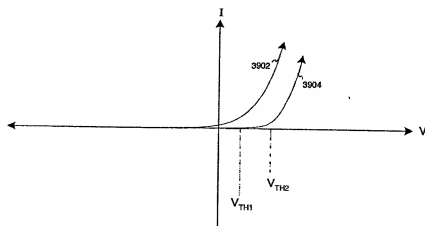


FIG. 37C

**FIG. 38A****FIG. 38B****FIG. 38C**

**FIG. 39**



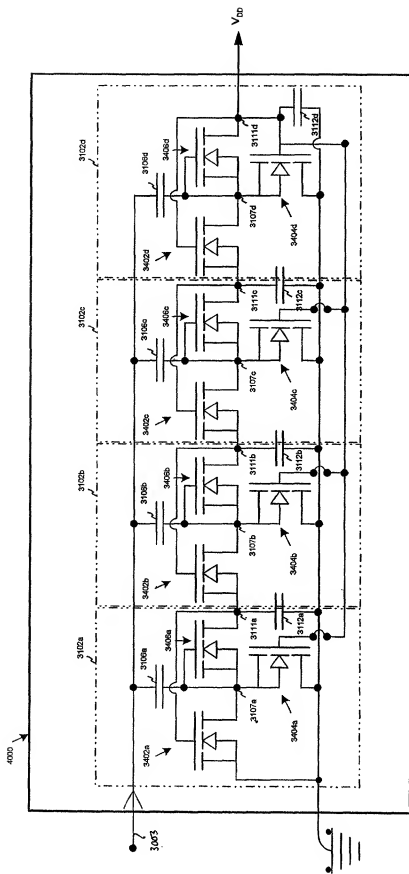


FIG. 40A

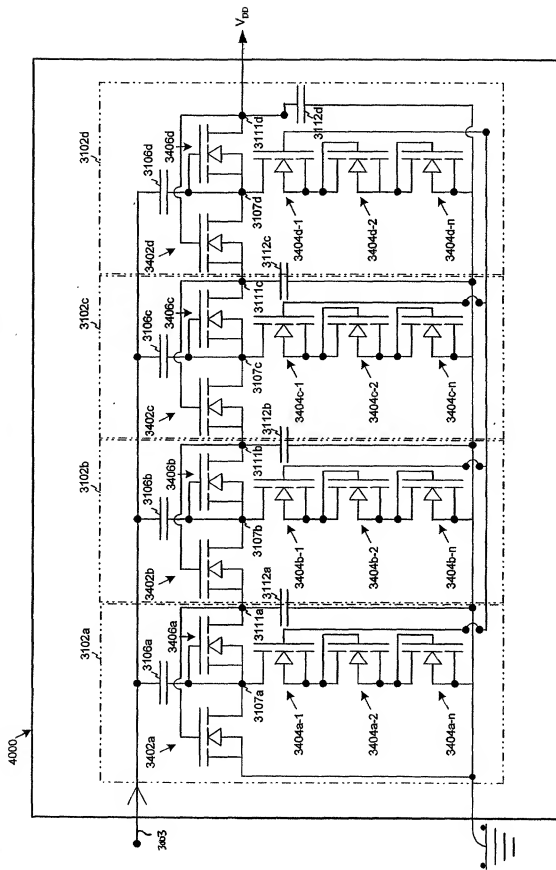


FIG. 40B

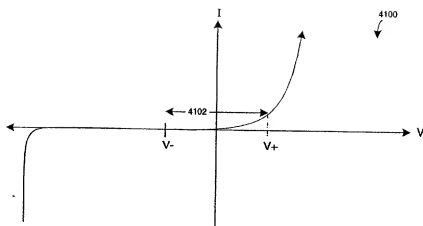


FIG. 41A

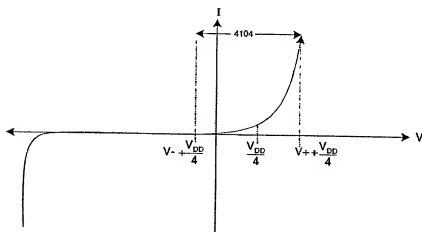


FIG. 41B

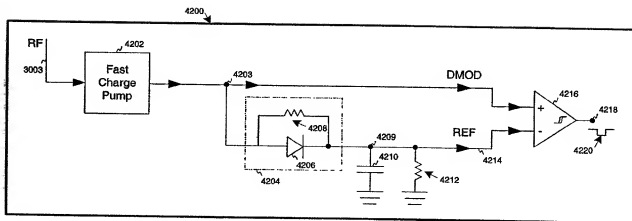
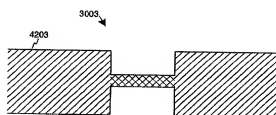
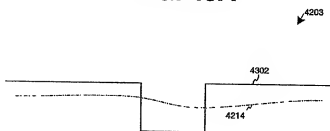


FIG. 42



**FIG. 43A**



**FIG. 43B**



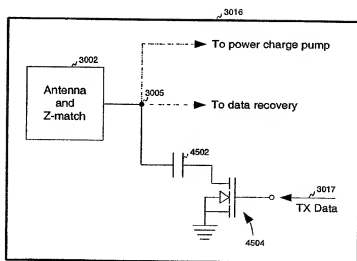


FIG. 45